CARLETON UNIVERSITY

Ottawa, Ontario

Canada

126th Convocation

Friday, June 17, 2005

Digitized by the Internet Archive
in 2013

http://archive.org/details/carletoncovoj172005carl

Convocation at Carleton University 2

Friday, June 17, 9:00 a.m.
Honorary Degree Recipient, Robert McDonald 6

Order of Proceedings 7
Doctor of Philosophy from the Faculty of Science and School of Computer Science; Master of Science; Master of Computer Science; Bachelor of Science (Honours) and Bachelor of Science; Bachelor of Mathematics (Honours) and Bachelor of Mathematics; Bachelor of Computer Science (Honours)

Friday, June 17, 12:30 p.m.

Order of Proceedings 21
Doctor of Philosophy from the Faculty of Engineering and Design (Aerospace, Civil, Environmental and Mechanical Engineering); Master of Applied Science (Aerospace, Civil, Environmental, Materials and Mechanical Engineering); Master of Engineering (Aerospace, Civil, Environmental, Materials and Mechanical Engineering); Master of Architecture; Bachelor of Engineering (Aerospace, Civil, Environmental and Mechanical Engineering); Bachelor of Architectural Studies

Friday, June 17, 4:00 p.m.
Honorary Degree Recipient, Sonja Bata 30
Patrick O'Brien High School Teaching Award Recipient, Catherine MacGregor 31

Order of Proceedings 33
Doctor of Philosophy from the Faculty of Engineering and Design (Electrical Engineering); Master of Applied Science (Electrical Engineering); Master of Engineering (Electrical Engineering and Telecommunications Technology Management); Bachelor of Engineering (Communications, Computer Systems, Electrical and Software Engineering); Engineering Physics); Bachelor of Industrial Design

Medallists in the Graduating Class 43

The Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

The Mace
The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function—in the case of universities, to grant degrees.

At Convocation, the mace is carried ahead of the Chancellor as he enters and leaves each ceremony. During the ceremony the mace is displayed on a special stand as an embodiment of the authority of the University.

Carleton's mace was presented to the University in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff approximately three feet long. At the upper end there is a bowl marked with the University's coat of arms and the University motto in both Latin and English— "Opera Nobis Aeterna" and "Ours the Task Eternal." From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Coat of Arms
The coat of arms was presented to the University by His Excellency The Right Honourable Ramon John Hnatyshyn, Governor General of Canada, on November 15, 1992, as part of Carleton's 50th anniversary celebrations. It is described in heraldic terms as follows: "Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: on a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules."

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the University when he was 78 years old. "Ours the Task Eternal" is taken from a Walt Whitman poem entitled "Pioneers" and ties in with the eternal quality of the phoenix.

And so, the Carleton University coat of arms symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Diploma
The diploma the graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the University, it is the Senate which has determined whether the requirements have been met. The signatures of both the Chancellor and the President of the University appear on the diploma: the Chancellor because of his role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The Seal of the University is affixed to the diploma as a mark of authentication.

Academic Dress
The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code. All three hoods—bachelor's, master's, and doctor's —are of the simple or Oxford shape. The bachelor's hood is made of black stuff; the master's and doctor's are made of black silk and all are lined with silver silk with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more and more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations: applied science is orange with a black cord sewn slightly in from the lower border; architecture is cerise; architectural studies is cerise with a black cord sewn slightly in from the lower border; arts is white; commerce is camel brown; computer science is royal blue; engineering is orange; humanities is white with a red cord sewn slightly in from the lower border; industrial design is dark cardinal; international business is camel brown with a red cord sewn slightly in from the lower border; journalism is white with a black cord sewn slightly in from the lower border; management studies and business administration is camel brown with a black cord sewn slightly in from the lower border; mathematics is hunter green; music is venetian pink; public administration is peacock blue; public affairs and policy management is teal with a gold cord sewn slightly in from the lower border; science is golden yellow; social work is cream; and doctor of philosophy is purple.

The master's and bachelor's gowns, to be worn with the above hoods, are of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The doctoral gown is of full-style, made of fine royal blue cloth with facings of light blue silk, with a full gathered yoke behind, and closed sleeves with an opening at the elbows.

The two shades of blue in the doctoral gown are those of the United Nations, and are meant to recognize the University's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the University awarded its first honorary degree, in 1954, to the second Secretary General of the United Nations, the late Dag Hammarskjöld. The tradition of awarding honorary degrees to Secretaries General of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Music, Science, Engineering, Architecture or Fine Arts is a full robe with bell-shaped sleeves. It is made of fine royal blue cloth with facings and sleeves in light blue silk. The hood is made of the same material as the gown, has the same lining as that for the degrees granted by examination, and is bordered with dark mauve for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; venetian pink for the degree of Doctor of Music; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering; cerise for the degree of Doctor of Architecture; and dark cardinal for the degree of Doctor of Fine Arts.

Alumni Park
Weather permitting, today's Convocation ceremonies are being held outdoors in Alumni Park which was dedicated in 1992, at the initiative of the Carleton University Alumni Association, to commemorate the University's 50th anniversary. The arbour under which the Chancellor, the President and Vice-Chancellor, the representative of the Board of Governors, and the faculty are seated is a generous gift from the Association. It provides a permanent stage for Carleton's Convocation ceremonies and other events such as theatrical productions, concerts, and the like. Future plans for the Park include an enhancement of the existing fountain area with the construction of a plaza and landscaping to open up views to the Rideau River.

The Presiding Officer of Convocation is the Chancellor of the University, Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng.

Accompanying him on the podium is Ross Donaldson, B.A., M.A., representing the Board of Governors, and Richard J. Van Loon, B.Sc., M.A., Ph.D., President and Vice-Chancellor.

Assisting the Chancellor are:

Chong H. Chan, B.Sc., M.A.Sc., Ph.D.
Professor of Engineering
Clerk of Senate
and Marshal of Convocation

Brian C. Mortimer, B.Sc., M.Sc., Ph.D.
Associate Professor of Mathematics
Assistant Provost
and Associate Marshal of Convocation

Donald L. Bailey, B.Eng., M.Eng.
Lecturer in Engineering
and Beadle of Convocation

John Blenkinsop, B.Sc., M.Sc., Ph.D.
Associate Professor of Earth Sciences
and Beadle of Convocation

Robert Burk, B.Sc., M.Sc., Ph.D.
Associate Professor of Chemistry,
Director of the College of Natural Sciences
and Beadle of Convocation

M. Elizabeth Hughes, B.A., C.T.E.S.L., M.A.
Lecturer in Initiatives in Education
and Beadle of Convocation

Carleton University is a national leader in providing high-quality post-secondary education to over 23,000 full- and part-time students at the undergraduate and graduate levels. Located in Canada's capital, Carleton has revitalized its commitment to academic excellence in public affairs and management and high technology while continuing to offer strong degree programs in arts, social sciences, science, and engineering and design.

Frederick Michel, B.Sc., M.Sc., Ph.D.
Associate Professor of Earth Sciences and Environmental Studies
and Beadle of Convocation

Bryan Tinlin, B.A., M.A.
Academic Adviser, Student Academic Success Centre
and Beadle of Convocation

Cathy Pearen
Deputy Clerk of Senate and Ceremonials Officer
Senate Office

Tony Bégin
Special Events Co-ordinator
University Communications

Also assisting at Convocation:

Linda Backer
Assistant Dean/Registrar
Faculty of Graduate Studies and Research

Suzanne Blanchard, B.Comm.
University Registrar
Registrar's Office

Lisa Ralph
Assistant Registrar-Client Services
Registrar's Office

Judy Bowman
Carol Corkran
Maureen Fagan
Christina Farago
Lee Hull, B.A.
Registrar's Office, Faculty of Graduate Studies and Research

April Alton, B.A.
Dianne Baird
Lindsay Ball
Andrew Breedyk, B.P.A.
Elizabeth Carrier
Jerrett Clark, B.A.
Pegge Clarke
Louise DeCristoforo
Sue Dunsmore
Dina Elatawi, B.A.
Dotty Guoti, B.A.
Becky Hoskins, B.A.
Lera Islam, B.A.
Carolyn Kibsey, B.A.

Valentina Leon, B.A.
Leslie Martin
Mary Orser
Irina Ortiz, B.A.
Daniel Ryan, B.A.
Judy Sakell, B.A., B.Comm.
Doug Saveland, B.A.
Judith Srna, B.A.
Monika St. Jean
Chandra Stratton, B.A.
Janis Taylor
Lisa Tsotroudis, B.A.
Jeff Weiser
Registrar's Office

Pamela Mallon
Office of the President

Ann Anderson, B.A.
Lin Moody, B.J., M.A.
Nanci Jolicoeur
MaryAnne Pomainville
Kathy Terada
University Communications

Lindsay Ball
Melissa DeCristoforo
Sarah Faloon
Sarah Fraser
Jennifer Hogan
Patrick Lepine
Bill Miklas
Christopher Reynolds
Christina Rossato
Markus Rossato
Melanie St. John
University Ambassadors

Robert McDonald

Robert McDonald, D.Letters

Robert McDonald, science journalist, popularizer, and educator, will be awarded the degree of Doctor of Laws, *honoris causa*, at the 9:00 a.m. ceremony on Friday, June 17, "in recognition of an outstanding contribution in helping the public understand and appreciate science."

Robert McDonald's 30-year career in science journalism spans the globe and various media. Currently the host of CBC Radio's *Quirks and Quarks*, he is also Science Correspondent for CBC television's *The National* and documentary reporter for *The National Magazine*. For seven years, McDonald was host and one of the producers of the award-winning children's science television program *Wonderstruck*. He is also the writer and host of the children's astronomy series *Heads-Up* scheduled to air on TVO this season.

As a print journalist, he has authored three books and contributed to numerous science textbooks, newspapers, and magazines including *The Globe and Mail, Owl Magazine*, and many others. His latest book, *Measuring the Earth with a Stick, Science As I've Seen It*, was shortlisted for the Canadian Science Writers' Award.

Through his company, Event Horizon, he has produced and hosted more than 100 educational videos now in use across North America.

Formerly an instructor at the Ontario Science Centre, he is now on its Board of Directors and is also an adviser for the Canadian Space Agency.

Robert McDonald is the 2005 winner of the McNeil Medal from the Royal Society of Canada. He has been honoured with the 2001 Michael Smith Award for Science Communication, the 2002 Royal Canadian Institute's Sir Sanford Fleming Medal for extraordinary contributions to Public Awareness of Science, and an honorary Doctor of Letters degree from the University of Guelph.

Friday, June 17, 9:00 a.m.

Chancellor Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until `O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

Processional Music
John Robert Coghill Jr., B.Mus. (bagpipes)
Garry Matthews (snare drum)
Craig Moffatt (bagpipes)

O **Canada***
(the audience is invited to sing)

Welcome by the Master of Ceremonies
Feridun Hamdullahpur, B.Eng., M.Eng., Ph.D., P.Eng.,
Vice-President (Research and International)

Conferring of the Degree of Doctor of Laws, *honoris causa*, **upon**
Robert McDonald, D. Letters,
(presented by Kathryn O'Hara, M.Sc., Associate Professor
of Journalism and Communication)

Convocation Address
Robert McDonald

Conferring of Degrees by Examination

Warrant
Chong H. Chan, B.Sc., M.A.Sc., Ph.D.,
Clerk of Senate

Awarding of Medals

Honour Award for Service
Joseph Haché

Recessional Music

*see next page for wording

O Canada! Our home and native land!

True patriot love in all thy sons command.

With glowing hearts we see thee rise,

The True North strong and free!

From far and wide, O Canada,

We stand on guard for thee.

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

O Canada! Terre de nos aïeux,

Ton front est ceint de fleurons glorieux.

Car ton bras sait porter l'épée,

Il sait porter la croix.

Ton histoire est une épopée,

Des plus brillants exploits.

Et ta valeur, de foi trempée,

Protégera nos foyers et nos droits.

Protégera nos foyers et nos droits.

Doctor of Philosophy

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Ismail Issa Al-Fasfous
B.Sc., M.Sc.
Chemistry
Metal Speciation in Natural Water: Evaluating Kinetics Versus Equilibrium
Supervisor: C. Chakrabarti

Paul Singh Sidhu
B.Sc., M.Sc.
Chemistry
Inclusion Chemistry of TRIS (5-Acetyl-3-Thienyl) Methane (TATM) Materials
Supervisor: J. Ripmeester

David Haziza
B.Sc., M.Sc.
Mathematics
Contributions to Imputation for Missing Survey
Supervisor: J.N.K.Rao

Ranjeeta Mallick
B.Sc., M.Sc.
Mathematics
Assessment of Record Linkage and Measurement Error in Cohort Mortality Studies
Supervisors: J. Zielinski, J. Rao and D. Krewski

Zhen Xu*
B.Eng., M.Eng.
Mathematics
Efficient Table Lookup Algorithms for the Next Generation IP Networks
Supervisors: Y. Zhao and I. Lambadaris

Yasser Morgan
B.Eng., M.Sc.
Computer Science
Pylon-Lite: An Architectural Model for Cross-Domain QOS
Supervisor: T. Kunz

Andrew Vardy
B.Eng., M.Sc.
Computer Science
Biologically Plausible Methods for Robot Visual Homing
Supervisor: F. Oppacher

Juan Pablo Zamora Zapata*
B.Sc., M.B.A.
Computer Science
Compliance Verification of a Design Model with Respect to its Specification Model in the Context of Software Defined Radios: A Model Transformation Approach
Supervisors: J.-P. Corriveau and F. Bordeleau

Master of Science

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Mohamed Abu-Farha
B.Sc.
Biology
Regulation of Erythroid-Specific 5-Aminolevulinate Synthase (ALAS2) by Hypoxia

Jennifer A. Armour
B.Sc.
Biology
Development of a Cloth-Based Hybridization Array System for the Detection and Identification of Ruminant Species in Animal Feed

Darryl B. Edwards*
B.Sc.
Biology
Tests of Hypotheses Concerning Early Male Arrival Based on Studies of Two Species of Passerines: Ruby-Crowned Kinglets (Regulus calendula) and Song Sparrows (Melospiza m. melodia)

Crystal M. Ernst
B.Sc.
Biology
Host Plants, Biology and Chemical Ecology of the Introduced Lily Leaf Beetle, *Lilioceris Lilii* (Scopoli) (Coleoptera: Chrysomelidae)

Martine E. Gauthier*
B.Sc.
Biology
Development of Cloth-Based Hybridization Systems for the Detection and Characterization of Foodborne Pathogenic Bacteria

Natalie Gottschall*
B.Sc.
Biology
The Role of Plants in the Removal of Nutrients at a Constructed Wetland Treating Agricultural (Dairy) Wastewater

David Gerald Ladd*
B.Sc.
Biology
Bad Seed: The Role of Seed Mass in Dispersal and Seedling Success in the Non-Native, Invasive Perennial, Vincetoxicum rossicum

Justin Joseph Mahoney*
B.Ed., B.Sc.
Biology
Over-Expression of an ETR1/ ERS1 Ethylene Receptor Chimera in Arabidopsis thaliana

Ashley Kathryn Woods
B.Sc.
Biology
Regulation of Protein and Phospholipid Metabolism in the 13-Lined Ground Squirrel, *Spermophilus Tridecemlineatus*, and the Wood Frog, *Rana Sylvatica*

Regina De La Campa
B.Sc.
Chemistry
Isolation and Characterization of Secondary Metabolites from Canadian Indoor Strains of Penicillium Brevicompactum and Penicillium Chrysogenum

Yu Feng*
B.Eng.
Chemistry
Molecularly Imprinted Solid Phase Extraction-Pulsed Elution and Capillary Electrophoresis for Rapid Screening of Metformin in Human Plasma

Hong Xu*
M.Sc.
Chemistry
Morphology and Mechanical Properties of Polycarbonate/Kraton Blends

Zuhor Al Rodhan
B.Sc., M.Sc.
Earth Sciences
Tectonostratigraphy of the Middle Ordovician Carillon Formation, Eastern Ontario

Dixon Louis Byrne*
B.Sc.
Earth Sciences
Field Relationships, Petrology, and Petrogenesis of Neoarchean Granitoids in the Northern Migmatite Sub-Domain, Committee Bay Belt, Nunavut

Fionnuala Devine
B.Sc.
Earth Sciences
Geology of the Southern Campbell Range, Southeastern Yukon: Implications for the Tectonic Evolution of Yukon-Tanana Terrane

Yue Bao
B.Eng.
Information and Systems Science
Personalized News Agent

Vandana Mandalika
B.Arch.
Information and Systems Science
Integrated Network Management System for MPLS-based Networks

Li Sun
Dip.
Information and Systems Science

Mohammad Tanabian
B.Eng.
Information and Systems Science
Speech Accent Identification and Speech Recognition Enhancement by Speaker Accent Adaptation

Azadeh Alimadad*
B.Sc.
Specialization in Biostatistics
Mathematics
A Robust Fit for Generalized Additive Models

Abdullah Almajran
B.Sc.
Mathematics
Specialization in Biostatistics

Fredrick Charles Arnold*
B.Math.
Mathematics
A Linear Algebra Approach to Synchronizing Automata

Chantal Belley*
B.Sc.
Mathematics
Specialization in Biostatistics
Practical and Theoretical Issues in Randomization

Amy Jean Cameron
B.Math.
Mathematics

Colette Sharon Haley*
B.A.
Mathematics
Evaluation of Certain Infinite Series Using Theorems of John, Rademacher and Kronecker

Gordon Ryuji Kuromi*
B.Sc.
Mathematics

François Larochelle*
B.Sc.
Mathematics

Jason Cheuk Yin Lau
B.Math.
Mathematics

Bei Li
B.Eng.
Mathematics

Mei Li
B.Sc.
Mathematics

Xuemei Liang*
B.Eng.
Mathematics

Zhongzhu Liu
B.Eng., M.Eng.
Mathematics

Ryan J. MacKinnon*
B.Math.
Mathematics

Thomas Philip Maloley
B.C.S., B.Math.
Mathematics

Reza Mashaie
B.Eng.
Mathematics

Katarzyna Naczk*
B.Sc.
Mathematics
Assessing Tests for Multivariate Normality

Daniela Panait*
B.A.
Mathematics

Hongjian Qin
B.Eng.
Mathematics

Abu Bashar Md. Shafiqur Rahman*
B.Sc., M.Sc.
Mathematics

Joshua Michael Schneider
B.Sc.
Mathematics

Him-Yik Tam
B.Math.
Mathematics

Jun Wang
B.Sc.
Mathematics

Pin Yuan
B.Sc.
Mathematics

Yingjun Zhu
B.Econ.
Mathematics

Kazem Ziaie
B.Eng.
Mathematics

Mohammad Nisar*
B.Sc., M.Phil., M.Sc.
Physics
Specialization in Medical Physics
Coherent Scatter X-Ray Imaging of Plastic and Water Phantoms

Etienne Rollin*
B.Sc.
Physics
Specialization in High Energy Physics
Adding Wavelength Shifter Molecules to the Sudbury Neutrino Observatory

Olivier Simard*
B.Sc.
Physics
Specialization in High Energy Physics
An Enhanced Measurement of the Angular Response of Photomultiplier Tubes at the Sudbury Neutrino Observatory

Master of Computer Science

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Derek Edward Bradley
B.C.S.
Augmented Reality on Cloth With Realistic Illumination

Jilan Chen
B.Eng., M.Eng.
Tumor Motion Problem During Radiotherapy Treatment

Jonathan Harris
B.C.S.
A Scalable and Extensible Peer-to-Peer Network Simulator

Xinrong Huang*
B.Sc.
Parallel Computation of Data Cubes

Samir Kazan*
B.Sc.

Bo-Yong Liang
B.Sc., M.Sc.
Compressing Data Cube in Parallel OLAP Systems

Yun Luo*
B.C.S.
Feature Interaction in Web Services

Anahit Martirosyan
Dip.
Word Sense Disambiguation and Context

Tobin McClean*
B.C.S.
Tool Support for Model Compliance Verification A QVT Based Approach

Terri Kimiko Oda*
B.Math.
A Spam-Detecting Artificial Immune System

Wei Wei Ran
B.Eng., M.Eng.

An Sheng
B.Eng.
Sensor Data Fusion Using Kalman Filters on an Evidence Grid Map

Lisa XiuLi Song
B.C.S., B.Econ.
Intruder Capture by Mobile Agents in Mesh Topologies

Liang Tang
B.Eng.
K-Hops Passive Clustering in Ad Hoc Networks

Shan Wei*
B.Sc., M.Sc.

Ting Wen
B.Sc., Dip.

Glenn Daniel Wurster
B.Math.
A Generic Attack on Hashing-Based Software Tamper Resistance

Dalong Xu
B.Econ.

Xuejun Xu*
B.Eng.
Mobility Support in Mesh Networks

Lan Yang
B.Eng.
CASH: A Category-Based File Management System

Hua Ye
B.Eng.
Parallel Implementation of Bisector ϵ-Approximation Shortest Path Algorithm for Concurrent Queries

Wei Zeng
B.Econ.
A Taxonomy of Reputation Systems on Decentralized Peer-to-Peer Networks

Bachelor of Science (Honours)

(presented by Professor J.-G. Godin, Dean of the Faculty of Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Kendrick Arthur Lawrence Abell
Honours
Integrated Science Studies

Lul Ahmed
Honours
Chemistry

Luma Al Silwadi
Honours
Biology and Biotechnology

Jane Allison
Highest Honours
Biology

Sarah Lorraine Anderson
Honours
Chemistry

Omar Ashkar
Honours
Environmental Science
Co-operative Education

Chris Auger
High Honours
Mathematics and Physics
Minor in Psychology

Ataa Azarbar
Highest Honours
Neuroscience

Derek James Bates
Highest Honours
Geography
Concentration in Physical Geography
Minor in Statistics

Natalie Beaulieu
Highest Honours
Biology

Niloufar Behin Aein Hemgini
Honours
Chemistry

Sophie Béraud
B.Sc.
Honours
Integrated Science Studies

Stacie Leanne Beveridge
Highest Honours
Environmental Science

Anne Boneschansker
Honours
Psychology
Minor in Statistics

Melanie Marie Christianne Bouffard
High Honours
Biochemistry

Allison Louise Brazeau
Highest Honours
Chemistry

Richard Curtis Brett
Highest Honours
Geology

Nicolas Ernesto Jose Campione Ruben
High Honours
Geology
Concentration in Vertebrate Paleontology and Paleoecology

Maria Lucia Castillo
Highest Honours
Integrated Science Studies

Shelagh Clancy
Honours
Biology and Biotechnology

Jennifer Connors
Highest Honours
Biology and Biotechnology

Daniel Dalton
High Honours
Biochemistry and Biotechnology

Angela Diane Desautels
Highest Honours
Biology

Michael Donaldson
Honours
Integrated Science Studies
Minor in Mass Communication

Alex Duong
Highest Honours
Computational Biology
Specialization in Molecular Bioinformatics
Minor in Philosophy

Asmaa El-Kasir*
Honours
Chemistry

Rahin Farzadfar
Honours
Biochemistry

Mary Ann Ferguson
Highest Honours
Psychology

Michelle Folta*
Honours
Geology

Kyle Fransham
High Honours
Applied Physics

Mylène Fréchette
High Honours
Neuroscience

Barbara Frei*
Highest Honours
Biology

Lewis Timothy Gauthier
Honours
Chemistry

Alexis P. B. Given
Honours
Neuroscience

Niti Gupta
Honours
Biochemistry and Biotechnology

Ashraf Hassanein
High Honours
Biochemistry

Una Huzbasic*
Honours
Geography
Concentration in Physical Geography

Christopher Jackson
High Honours
Biology and Biotechnology

Christopher Jewell
Highest Honours
Applied Physics

Candice Yang Johnson
Highest Honours
Biology and Biotechnology

Laura Anne Jones
B.Sc.
Honours
Biology
Minor in Psychology

Susannah Juteau
Honours
Neuroscience

Alice Kardjaputri
Honours
Chemistry

Amanda Kenney
Highest Honours
Integrated Science Studies

Muhammad Qasim Khan
Highest Honours
Biology and Biotechnology

Christine Lamarche
Highest Honours
Biochemistry and Biotechnology

Rebecca Lee
Highest Honours
Neuroscience

Victoria Mei-Wah Lee
Honours
Biology and Biotechnology

John Keldeagh Lindsay*
High Honours
Biology and Biotechnology
Co-operative Education

Darcy Lance Litteljohn
Highest Honours
Neuroscience

Pratik Lodha
High Honours
Biology and Biotechnology
Co-operative Education

Michelle Bernadette Lopez
B.A.
Honours
Biology

John David Edward Lowe*
Highest Honours
Biology
Minor in Psychology

Faye Larissa Lynott
Honours
Biology and Biotechnology

Adrienne Elizabeth M^{ac}Donald
Honours
Neuroscience

Jordan Cole Mallon
Highest Honours
Geology
Concentration in Vertebrate
Paleontology and Paleoecology

Erum Maqsood Ahmed
High Honours
Biochemistry and Biotechnology

Lisa Marie M^{c}Carter
High Honours
Biology
Minor in Psychology

Liam Patrick McGuire
Highest Honours
Biology
Minor in Statistics

Christopher McIlhinney
High Honours
Biology and Geology

Gabriel Mott
High Honours
Neuroscience

Kirk Michael Mulligan
Honours
Biochemistry

Shaunacey Anne Murray
Honours
Biology

Jeremy Jameyson Nichol
B.A., B.Sc.
Highest Honours
Psychology

Brett Steven Painter
Honours
Biology
Minor in Psychology

Robert W.A. Parsons
High Honours
Biology and Geology

Kristen Diane Petruska
Highest Honours
Psychology
Minor in Statistics

Vicki Justine Pierre
Honours
Neuroscience

Martha Marie Popela*
Honours
Biology and Biotechnology

Dale Aaron Powell
Honours
Integrated Science
Specialization in Information
Technology

Maciej Radomski
Highest Honours
Environmental Science

Ali Rahim-Abdolrahim
Honours
Geology

Thaila Riden
B.A.
Honours
Integrated Science Studies

Suufi Rirash*
Honours
Biochemistry

Adriana Vera Romas
Honours
Environmental Science
Minor in Geography

Raj Ruparelia
Highest Honours
Integrated Science Studies

Maria Camille Russell
Highest Honours
Chemistry

Safaa Sabbah
High Honours
Biochemistry and Biotechnology

Nadia Saboui*
Honours
Geology

Zienab Sahar Saeed
Honours
Biochemistry

Erin Sargla
High Honours
Psychology

Caitlin Saunders
Honours
Biology

James E. Scott
High Honours
Geology

Sean Scrivens
Honours
Computational Geophysics

Manuel Smeu*
Highest Honours
Computational Chemistry
Minor in Mathematics

Robert Phillip Smith
Highest Honours
Biology and Biotechnology

Aaron John Snider
Highest Honours
Computational Geophysics
Minor in Mathematics

Dhara Soni
Honours
Neuroscience

Albert Jacob Stoffers
Honours
Geology

Jennifer Louise Summers
Highest Honours
Psychology

Stefan Joel Paul Thompson
Highest Honours
Environmental Science

Tiffany A. Timbers
Highest Honours
Biology

Ping Ping Tong
Highest Honours
Biochemistry and Biotechnology

Carrie A. Van Luven
Highest Honours
Geology

Melissa Ann Watchorn
B.Sc.
Honours
Environmental Science

Christopher Kevin Whynot
High Honours
Biochemistry and Biotechnology
Co-operative Education

Mark Wilansky
High Honours
Integrated Science
Specialization in Forensic Science
Minor in Psychology

Jennifer Dafna Winn
High Honours
Biology and Biotechnology
Minor in Psychology
Co-operative Education

Rahme Youssef
Honours
Integrated Science
Specialization in Education
Minor in Biology

Deanne van Rooyen
Highest Honours
Geology

Bachelor of Science

(presented by Professor J.C. Armitage, Associate Dean of the Faculty of Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Stephen D. Armstrong*
Biochemistry

Azar Awan
Integrated Science Studies

Sheila Anne Bennett
Integrated Science Studies
Minor in Psychology

Brian Bigirwa*
Biochemistry

Eden Tiara Boyko
Integrated Science Studies

Andrew James Bradley
Biology

Simon Chiu*
Computational Chemistry

Helga Anne Edens
Chemistry

Deena Fabris
Biology

Richard Harvey Fee
Integrated Science Studies

Douglas George William Francis*
Biology
Minor in Psychology

Meghan Gough
Biology

Krista Lynn Anne Gower
Biology
with distinction

Joseph Ulysse Guillaume Haché*
Integrated Science Studies

Sean B. Helferty
Physics

Robert Hoftyzer
Biology
Minor in Psychology

Matthew Eric Jackson
Biology

Katarzyna Aleksandra Kieliszkiewicz
Biology
Minor in French

Delores Lee
Biology
Minor in Psychology

Michael Kang Hao Lee
Biology

Ya-Li Emily Lee
Biology

James Alexander MacDougall
Biology

Shawna Lee Morrison
Biology
Minor in Psychology

Abimanyu Mukerji
Physics
Minor in Psychology

Dega Mussa
Chemistry

Wilma Nicholls
Integrated Science Studies
Minor in Geography
with distinction

André Nobrega*
Biology

Collin A. Peters
Chemistry

Christopher Piché
Biology
Minor in Psychology

Satwant Kaur Sidhu
Biochemistry

Ann Marie L. Spencer*
Biology

Maliha Sultan*
Biochemistry

Kirusanthini Thillaiampalam*
Chemistry

Nayef Thuwaini Al-Shemmari
Biology

David Verrilli
Integrated Science Studies
with distinction

David B. Willson
Integrated Science Studies
Minor in Sociology

Bachelor of Mathematics (Honours)

(presented by Professor Y.Q. Zhao, Director of the School of Mathematics and Statistics)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Melanie Joan Abeysundera
Highest Honours
Statistics

Maria Akhtar
Honours
Computer Mathematics: Information Technology

Michael David Armstrong
B.Math.
Honours
Mathematics

Jordan Edward Bell
Highest Honours
Mathematics
Minor in Economics

Scott Andrew Bush
Highest Honours
Mathematics
Specialization in Stochastics

Elizabeth Ann Cross
Highest Honours
Computer Science and Mathematics
Specialization in Computing Theory and Numerical Methods

Zeyu Deng
Honours
Computer Science and Mathematics
Specialization in Computing Theory and Numerical Methods

Mohammed Reza Farzin*
High Honours
Computer Science and Mathematics
Specialization in Computing Theory and Numerical Methods

Yan Guo
High Honours
Computer Mathematics: Information Technology

Ranjith Jeyabalan
Honours
Computer Mathematics: Information Technology

Ming Lin Ji
High Honours
Statistics

Chen Lu
Highest Honours
Computer Mathematics

Adrian Moscher
Honours
Mathematics

Chao Wang
Honours
Computer Science and Mathematics
Specialization in Computing Theory and Numerical Methods

Shu Wang
Highest Honours
Computer Science and Mathematics
Specialization in Statistics and Computing

Yi Wang
High Honours
Computer Statistics

Stephen Robert Williams
Honours
Computer Mathematics
Minor in Japanese

Ting Xu
High Honours
Statistics and Economics

Bachelor of Mathematics

(presented by Professor Y.Q. Zhao, Director of the School of Mathematics and Statistics)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Salman Jawaid Ahmad
Computer Mathematics

Katharine Ann Atherton*
Computer Mathematics

Yasmin Bartal
Mathematics
Minor in Economics

Anthony A. Caouette
Mathematics
Minor in Economics

Tianning Chen
Computer Mathematics

Aleksandra Copija
Mathematics
Specialization in Applied Analysis
Minor in French Interdisciplinary Studies

Vicente Frias
Statistics
Minor in Technology, Society, and Environment Studies

Tayyabah Hassan
Mathematics
with distinction

Alfred T. Kanagasingham
Computer Mathematics

Said A. Khalif
Computer Mathematics

Somavatey Lay
Mathematics

Brian Liu
Computer Mathematics

Nigel Thomas Lyle Lord*
Mathematics

Conrad B. Lucas
Computer Mathematics

Andrew Peter Mack*
Computer Mathematics

Santhanamary Mariyathas*
Mathematics

Erin Melissa Martin
Mathematics

Farzad Mirza
Statistics

Blue Ahmik Renée Morgan*
Mathematics

Courtney Rebecca Murphy
Mathematics

Suresh Nadarajah*
Computer Mathematics

Thavagomalan Navaratnasingam
Computer Mathematics

James Robert Over
Computer Mathematics

Venuga Panchalingam
Computer Mathematics

Suhayl Patel
Mathematics

Haifeng Qu
Computer Mathematics

Michael Anthony Rotondi
Mathematics
Specialization in Statistics
with distinction

Brankica Saracevic-Lucic
Mathematics

Tharsana Selvarajah
Statistics

Kisokumar Selvaratnam
Computer Mathematics

Wen Hui Song
Statistics

David Harry Jr. Stafford*
Computer Mathematics

Daniel F. Streib
Mathematics

Bhanugopan Suntharalingam
Mathematics

Mangaleswary Thurairajasingam
Mathematics

Yevgeny Venetsky
Mathematics

Fung Hang Benjamin Wan*
Computer Mathematics

Naomi Lynne Wolfson
Mathematics
with distinction

Chung Wun Jennifer Wong
Mathematics

Yuk Wong
Mathematics

Stacey M. Wood
Statistics

Bachelor of Computer Science (Honours)

(presented by Professor Douglas Howe, Director of the School of Computer Science)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Gayan Abeysundara
Highest Honours
Software and Computing
Minor in Mathematics
Co-operative Education

Ananthini Anton Fernando
Highest Honours
Software and Computing
Minor in Mathematics
Co-operative Education

Christopher Arcand
Honours
Software and Computing

Mandeep Singh Arneja
Honours
Software and Computing
Minor in Psychology

Ryan Aubrey*
Honours
Software Engineering

Vijitha Balasritharan
Honours
Management and Business Systems

Gregory Bell Lightbourne
Honours
Software Engineering
Minor in Mathematics

Tair Bilyalov
Honours
Software and Computing

Nicolaas Blaauw*
Highest Honours
Software and Computing

Marc A. Blais*
Honours
Network Computing

Daniel Troy Byers
B.Math.
Honours
Software Engineering

John Ryan Cardinal
Highest Honours
Software and Computing
Minor in History

Philip D. E. Carswell
Honours
Software Engineering

Karen Chan
Honours
Software and Computing

Zhong Chen*
High Honours
Software and Computing
Minor in Mathematics
Co-operative Education

Pulak Choudhury
High Honours
Software and Computing

Wayne Wei-Yin Chu
High Honours
Network Computing
Minor in Political Science
Co-operative Education

Robert Joseph Clark*
Honours
Software

William Ernesto D'Arbelles Montealegre*
Honours
Software Engineering

Michael Jose Da Silva
Highest Honours
Management and Business Systems
Minor in Business
Co-operative Education

Michael Charles Anthony Dacey*
B.Com.
High Honours
Management and Business Systems

Ying Du
B.Sc.
High Honours
Software and Computing

Hussein El-Aggan
High Honours
Management and Business Systems

Richard Blair Enns*
Highest Honours
Software and Computing
Minor in Mathematics

Jeffrey Alexander Foy
Honours
Software Engineering

Michael David Gardiner*
Honours
Software and Computing

Richard Christopher Gerrard*
Highest Honours
Software and Computing
Co-operative Education

Michael Gold*
Highest Honours
Network Computing
Minor in Mathematics
Co-operative Education

Jeremy Gribben
High Honours
Software and Computing

Yu Han*
Highest Honours
Network Computing
Co-operative Education

Defang Hou
B.Sc.
Highest Honours
Software and Computing

Jun Hou*
Highest Honours
Software and Computing
Co-operative Education

Xiaomin Hu*
Highest Honours
Software and Computing

Chang Liang Huang
Honours
Software Engineering
Minor in Mathematics
Co-operative Education

Ming Huang
B.Eng.
Highest Honours
Information Systems Security
Minor in Mathematics

Jason Humber
Honours
Software Engineering

Christopher Ryan Johnson
Highest Honours
Software Engineering
Minor in Mathematics
Co-operative Education

Dmitry Karasik
Highest Honours
Network Computing

Konrad Kyc
Honours
Software Engineering

Yongmei Liu*
Highest Honours
Software and Computing
Co-operative Education

Gordon Shek-Chung Lo
Honours
Network Computing
Minor in Mathematics and Minor in Philosophy

Kah Khuen Loke
Highest Honours
Network Computing
Co-operative Education

Joshua Adam Luchies*
Honours
Software and Computing

Tian Ma
Honours
Software and Computing

Matthew Roy MacIntyre
Highest Honours
Management and Business Systems

Omar Roy Mahmoud
Honours
Software and Computing

Shaun Mc Quaker
Highest Honours
Software and Computing
Minor in Psychology

Ritika Mehta
High Honours
Management and Business Systems

Alexandra Metelski
Highest Honours
Software Engineering
Co-operative Education

Dwayne Moore*
Highest Honours
Software and Computing
Co-operative Education

Tatiana Moskun*
Highest Honours
Software and Computing
Minor in Mathematics

Tuan Tu Nguyen*
Honours
Software Engineering
Minor in Mathematics

Toan Nguyen
Honours
Information Systems Security

Yandu Sepp Oppacher
High Honours
Software and Computing

Alexander Oreshkin
Highest Honours
Software Engineering

Matthew James Ostime
Honours
Software and Computing

Darryl Edward Payne-Short
Highest Honours
Software and Computing

Christopher James Perera
Honours
Management and Business Systems

Nothapol Piyasin
High Honours
Software and Computing
Co-operative Education

Vincent Potvin*
Honours
Management and Business Systems
Minor in Business

Jesse Renaud*
Highest Honours
Software and Computing
Minor in Mathematics
Co-operative Education

George John Salhani
Highest Honours
Management and Business Systems
Minor in Business
Co-operative Education

Xiaotao Shu*
Highest Honours
Network Computing

Heather Leigh Simmie*
Highest Honours
Management and Business Systems
Co-operative Education

Yong Ling Kelly Situ*
Honours
Software and Computing
Minor in Mathematics

Yan Sui
Highest Honours
Software and Computing
Co-operative Education

Peter Tang
Highest Honours
Software and Computing
Co-operative Education

Vivien Tony
Honours
Software and Computing

Robert J. Villeneuve*
High Honours
Software and Computing

Chunyan Wang
Highest Honours
Software and Computing

Fang Wang*
High Honours
Software and Computing

Wei Jie Wang*
Honours
Software and Computing

Getachew Woldeyes
Honours
Software and Computing

Ho-Yin Wong
High Honours
Software and Computing
Minor in Psychology

Kevin Wong
Honours
Software and Computing

Kristopher Andrew Woodbeck
Highest Honours
Software and Computing
Co-operative Education

Jian Xie
Highest Honours
Software and Computing

Tingting Yan
M.Eng.
Highest Honours
Software and Computing
Co-operative Education

Tian Yuan
Honours
Software and Computing
Co-operative Education

Jun Zhao
High Honours
Software and Computing

Haihong Zheng*
High Honours
Software and Computing

Friday, June 17, 12:30 p.m.

Chancellor Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until 'O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

Processional Music
John Robert Coghill Jr., B.Mus. (bagpipes)
Garry Matthews (snare drum)
Craig Moffatt (bagpipes)

O Canada*
(the audience is invited to sing)

Welcome by the Master of Ceremonies
Feridun Hamdullahpur, B.Eng., M.Eng., Ph.D., P.Eng.,
Vice-President (Research and International)

Convocation Address
Moyra McDill, B.Eng., M.Eng., Ph.D., P.Eng.,
Professor of Mechanical and Aerospace Engineering

Conferring of Degrees by Examination

Warrant
Chong H. Chan, B.Sc., M.A.Sc., Ph.D.,
Clerk of Senate

Awarding of Medals

Recessional Music

*see next page for wording

O Canada! Our home and native land!

True patriot love in all thy sons command.

With glowing hearts we see thee rise,

The True North strong and free!

From far and wide, O Canada,

We stand on guard for thee.

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

O Canada! Terre de nos aïeux,

Ton front est ceint de fleurons glorieux.

Car ton bras sait porter l'épée,

Il sait porter la croix.

Ton histoire est une épopée,

Des plus brillants exploits.

Et ta valeur, de foi trempée,

Protégera nos foyers et nos droits.

Protégera nos foyers et nos droits.

Doctor of Philosophy

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Richard Michael Kearsey*
B.Eng., M.Eng.
Aerospace
Compositional Effects on Microsegregation Behaviour in Single Crystal Superalloy Systems
Supervisor: J.C. Beddoes

Richard Garner Lee*
B.Eng., B.Tech., M.Eng.
Aerospace
Dynamic Manipulation of Asymmetric Forebody Vortices to Achieve Linear Control
Supervisors: R. J. Kind and E. S. Hanff

Mohamed Ahmed Mahgoub*
B.Sc., M.Eng.
Civil
A Study of Some Issues Related to Seismic Design Provisions of National Building Code of Canada
Supervisor: J. Humar

Abdelzaher Ezzeldeen Ahmed Mostafa
B.Sc., M.Sc.
Civil
The Stripping Susceptibility of Airfield Asphalt Mixes: The Development of Guidelines for a Laboratory Test Method
Supervisors: A. O. Abd El Halim and S. Easa

Aly Sherif
B.Sc., Dip., M.A., M.Eng., M.Phil., M.Sc.
Civil
Impact of Road Surface Temperature and Condition on the Risk of Winter Vehicle Collisions
Supervisor: Y. Hassan

Master of Applied Science

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Craig Thomas Johansen*
B.Sc.
Aerospace
Numerical Simulations of Turbulent Flows

Michal P. Siorek*
B.Eng.
Aerospace
Design of a Technology Demonstration Closed Brayton Cycle Engine for Small Electrical Power Generation Application

Yun-Ming Yu
B.Eng.
Aerospace
A Law-of-the-Wall Shift Correlation for Deterministically and Stochastically Rough Surfaces

Yassin Eisa Adam*
B.Sc.
Civil
Asphalt Concrete Characterization Using the Complex Modulus Technique

Serge L. Desjardins*
B.Appl.Sc.
Civil
Real-Time Computer Platform for Vibration-Based Structural Health Monitoring of the Confederation Bridge

Rong Feng Huang
B.Eng.
Civil
An Experimental and Numerical Study of Square and Rectangular Slotted HSS Connections

Muhammad Imran
B.Sc., M.Sc.
Civil
Development of GPS-Based Procedure for Tracking Vehicle Path

Chandra Shekhar Juneja*
B.Tech.
Civil
Analysis of Ontario Fires and Reliability of Active Fire Protection Systems

Carlos Vejar*
B.Civil Eng.
Civil
Optimization of Freight Transportation in Southeast Mexico

Marcela Dereix Carrillo
B.Eng.
Environmental
Steam-Explosion Pretreatment of Municipal Sludge to Enhance Anaerobic Digestion

Md. Khalekuzzaman
B.Sc.
Environmental
A Bench-Scale Sequential Aerated Peat Biofilter System Treating Landfill Leachate Under Varied Loading Rates

Youngsam Kim
B.Eng., M.Sc.
Environmental
Pyrolysis of Wastewater Treatment Sludges for the Production of Oil and Adsorbents

Diliara Ousmanova
Dip.
Environmental
Fungal Generation of Organic Acids for Removal of Lead from Contaminated Soils

Sean Speer
B.Eng.
Environmental
Hydrodynamic Pathways in a Mature Constructed Wetland

Trisha Lynn Westman
B.Sc.
Environmental
From Waste to Product: Developing Pulp and Paper Mill Biosolids Into a Marketable Resource

Xiaoyang Zhang
B.Sc.
Environmental
Development of a Vertical TDR Probe to Measure the Water Content Profile with Depth in Peat Columns

Jonathan Pang-Fay Tsang
B.Appl.Sc.
Materials
Nucleation and Short Fatigue Crack Growth Behaviour in the 2024-T3 Aluminum Alloy

Sizhao Wang
B.Eng.
Materials
Welding and Repair of Single Crystal Ni-Based Superalloys

Feng Cai
B.Eng.
Mechanical
Manufacturing and Experimental Investigation of Copper Heat Pipes

Sándor David Kostya
B.Eng.
Mechanical
Arbitrary 2-Element H-Coarsening of a TTH-Generated Hexahedral FEA Mesh

Megan Catherine McTavish
B.Eng.
Mechanical
Design and Construction of a Variable Stiffness Prosthetic Arm Prototype

Jin Ping Xu*
B.Eng.
Mechanical
An Alternative Arrangement for Measurement of Line Tension on Solid Substrates

Master of Engineering

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Xiao Bin Wang*
B.Eng., M.Eng., Ph.D.Eng.
Aerospace

Musaad H. Al-Duailej
B.Sc.
Civil

José Edgar Cruz Botello*
B.Eng.
Civil

M. Asif Iqbal
B.Sc.
Civil

Monther M. Jamil
B.Sc.
Civil

Ali Nawaz
B.Sc.
Civil

Nasr Slabi*
B.Sc.
Civil

Heping Yan
B.Eng., M.Eng.
Civil

Phaik Hoon Yew
B.Eng.
Civil

Duane Raymond Smith*
B.A., B.Eng.
Environmental

Ernesto Martin Franceschi*
B.Sc.
Mechanical

Canwen Rong
B.Eng.
Mechanical

Master of Architecture

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Sadia Akhter
B.Arch.
Panam Nagar, the Ancient City of Bengal: In Search of Continuity in Tradition

Kristopher Daniel Benes*
B.Arch.St.
The Sustainable Development of Urban 'Scrap Sites'

Eric Matthew Fung
B.Arch.St.
Emergent Architecture: A Resurgence of Natural 'Beauty'

Ramtin Hajmahmoud Attar
B.Arch.St.
Surface Wear

Wenxi He
B.Eng.
Vertical Neighborhood

Sarah Y. Lee
B.Arch.St.
Liminal Becoming: Studies Within Movement

Adel Mohamed Maher*
B.Sc.
Canada Science and Technology Museum Architecture as a Link Between Technology and Natural Environment

Wayne Malaka
B.Arch.St.
A Homeless Perspective

Miroslav Marko
M.Sc.
From Technologically "Green" Design to Authentically "Green" Practice: The Search for Architecture Capable of Creating Environmentally Responsible Minds, Rather than Just Environmentally Responsible Buildings

Bini Saha
B.Arch.
Porosity and Participation: The Architecture of the Canadian Institute of Design

Nasim Sarir*
B.I.D.
Technology and Elderly People: Design Methodology for Interactive Communication in Later Life

Julie Savignac
B.Arch.St.
A Northern Experience

Daniel R. Smith
B.Arch.St.
Aundjitowin... In the Footsteps of Anishinabeg Architecture Aund-ji-to-win (Ojibwe v. - Change, Alteration, Amendment, Reconstruction - as Pertaining to Building)

Anthony O. Sproul
B.Arch.St.
Architecture's Role in Nation-Building: The Palestinian National Library

Titania Johanne Truesdale*
B.Arch.St.
Technology as 'Praxis of Inquiry' in Architectural Design: Adaptability Modulation Emergence

Glory Wang
B.E.D.
Rehabilitation Strategies: The Case of Vancouver Downtown Eastside

Christopher James Warden
B.Arch.St.
Turning the Lights On: The Impact of the Cinema on Small Town Public Space

Matthew Alexander Zess
B.Arch.St.
The Space of Inversion

Bachelor of Engineering

(presented by Professor John Chinneck, Associate Dean of the Faculty of Engineering and Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

AEROSPACE

Sabbir Ahmed

Carolyn Alicia Amos

Sekhar Angepat
with distinction

Nabeel Amir Bader

Imtee Hasib Baksh

Robert Wayne Bernard
Co-operative Education

Patrick G. Boisvert
Co-operative Education
with high distinction

Andrew Brian Bonnell

Philip Boyer

Andre L. Brunet
with distinction

Matthew Cha
with high distinction

Clement Chiang

Magda Yaneth Clavijo Rodriguez

Peter J. Crampton
with high distinction

Yannick Dandurand Manley

Andrew Brian Day

Ryan John Densham
Co-operative Education
with high distinction

Maher El-Moussa*

Ian Farrell
Co-operative Education
with distinction

Cameron James Frazier

Donald Thomas Frederick*

Aaron Thomas Gillich
with high distinction

Jorde K. Goethals

Jeremy William Simon Graaskamp*

Marc Graziani

Jonathan Greaves-Guertin*

Lynne Patricia Gumbley*

Gillian Maureen Harris
Co-operative Education
with distinction

Brian David Harvey

Richard Charles Hodgins

David Laurence Hope

Swaraj Singh Hunjan

Jennifer Anne Jackson*

Blake Aaron Johnson
Co-operative Education
with distinction

Daryl J. Josefchak
with high distinction

Sean Kaszper

Patricia Abigail Kenney
Co-operative Education
with high distinction

Zahra Khan
with high distinction

Michael T. Kula

Kathleen Victoria Lane

Benjamin Carl James Langford
with distinction

Ian Michael Lauder

Sung Eun James Lee

Jodi A. MacMillan

Angeline Marie Marasse

Chantal Marchand
with distinction

David Zen Leonard McClelland

Dennis James McLean
Co-operative Education
with high distinction

Lila Miners
Minor in Psychology
with distinction

Candice Ann Motran*
with distinction

Jay Richard Cameron Murdoch
with high distinction

Scott Nimmo

Kirsten Plante
with high distinction

Vinod Rajasekaran

Michael Philip Reimer

Rajib Reza

Murray Grant Robb

James David Robinson
with high distinction

Jeremy Joseph Roshick*
with distinction

Rajpal Sandhu
Co-operative Education
with high distinction

John W. Schmalz

Hussein Shamji

Kathleen Mary Siemens
Co-operative Education
with high distinction

Tyson Siepmann*

Manpreet Singh*

Michel St. Germain

Farzad Taremi
Minor in Mathematics
Co-operative Education
with distinction

David Paul James Turner

Jeffrey Paul Watson

Jonathan Weir
Co-operative Education
with distinction

Brody R. Wight

Andrew T. E. Williams
Co-operative Education
with high distinction

Scott Riley Wilson
with high distinction

Velda J. Wong
Co-operative Education
with distinction

Christian Zenko

CIVIL

Gregory Donald Adamson
with distinction

Stephen Bahadoor
Minor in Technology, Society, and Environment Studies
with distinction

Alicia Bartlette
Concentration in Management

Jason Chiasson

Joanne R. Dobson

Mehdi Ebrahimipour
Concentration in Management

Eci Garavito-Bruhn
with high distinction

Meaghan Colleen Ellen Henry
Concentration in Management

Michael Killam
with distinction

Jonathan Hannu Laakso

Adam Joseph O'Connor

Danny Palermo

Nicholas David Weatherdon
Concentration in Management

Leona Wong*

Adam Paul Woolfrey*
Concentration in Management

ENVIRONMENTAL

Niyaaz Alikhan

Sarah Lesley Bennett
with distinction

Selena Marie Fraser

Krista Mayer
with distinction

Nicholas James Poulin

Thomas Patrick Sammon
with distinction

MECHANICAL

Michael Nee Sackey Afful*

Kevin M. Aldridge

Michael James Andrusiak
Co-operative Education
with distinction

Chukwudi Azih
with high distinction

Curtis Bernard
Co-operative Education
with distinction

Richard Daniel Binder
Mechanical

Allison Sarah Bramwell
with high distinction

Scott William Bulmer*

Nahid Yeasmin Choudhury

Adrian Doyle Deutekom

Joshua David Eaton
with distinction

Kyle E. Epp

Jonathan D. Fromow*

Scott Joseph Gallant*

Iain McCallum Greenan

Charles Halliburton

Phillip Herby
with distinction

Sefton Hyde-Clarke

Andrew Ilves

Phillip R. Jones
with high distinction

Ryan Daniel Kuhne

Mackenzie O. Larwill*
with distinction

Jimmy Javier Leon

Tak Fai Orlando Lung*
Concentration in Computer-Integrated Manufacturing

Andrew Colin Macpherson
with distinction

David Keith Marshall
with distinction

Robert Shaun Marx

Saadeh Masaeli

Michael Robert McAndless

Marc Andrei McArthur
with distinction

Anna Maureen McCormack

Jodi Renee Miles
with distinction

Scott Alexander Myrden
Co-operative Education
with high distinction

Santhan Nadarajah*
Concentration in Computer-Integrated Manufacturing

Dominic Denis Nicholas
Concentration in Computer-Integrated Manufacturing

Elizabeth Leigh Nicholson
Concentration in Computer-Integrated Manufacturing
Co-operative Education
with distinction

Kelly J. O'Neill*

Eric Quenneville Hudec*
Concentration in Computer-Integrated Manufacturing

Elisa Mercedes Reyes*

Ian Bruno Rosso*

William Low Watsford Saunders

Wesley John Sneek

Robert C. M. Thompson
with distinction

Jason Alexander Vallis
with distinction

Owen Robert Van Walleghem

John Albert Wiebe*

Aleksander Andrzej Wisniewski
with high distinction

Timothy Wong*

Christopher Allen Wright

Stephanie K. Young*
with distinction

Bachelor of Architectural Studies

(presented by Assistant Professor Stephen Fai, Director of the School of Architecture)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Ian Richard Morris Barnett
with distinction

Neda Basharat
with distinction

Donaciano Caswell*

Sapphira T. Charles
with distinction

Eric Anthony Charron
with high distinction

Alex Chen

Murielle Cheng

Christopher Choi

Cecilia Wing Sze Chui

Joshua Caleb Coulas
with distinction

Steven Culver
with high distinction

Martha Christine Doerfler
with distinction

Blake A. Eddy

Jennifer Marisa Esposito
with high distinction

Kuo-Yang Johnson Fu

Matthew Fung
with distinction

Ryan Gannon
Co-operative Education

Sarah Beth Gelbard
with high distinction

Kerri Goudie*
with distinction

Anthony Francis Grumbine*
with high distinction

Monika Harte-Maxwell
Co-operative Education
with distinction

Erin Marcea Hoffman
with high distinction

Michael Hsu
Co-operative Education
with distinction

Dmitry Ivanoff
with distinction

Etienne Laferriere
with distinction

Raymond Arthur Lafrance

Matthew Robert Lahey
with high distinction

Jeannine Leclair
with high distinction

Shuk Ki Sukie Leung
Co-operative Education
with distinction

Edward Lin
with distinction

Esther Joy Link
Co-operative Education
with distinction

Seth Edward Lippert
with distinction

Robin Ka Wing Lo

Jennifer A. Lombardi
B.Sc.
with high distinction

Christopher M. MacMillan
with distinction

Elizabeth Notarfonzo-Sebald

Isabel Richer
with high distinction

Sara Amber Salach
with distinction

Soudeh Salehin
with distinction

Dominique Robin Seydoux
with high distinction

Michael Marcel Simon
with high distinction

Sean Joseph Solowski
with high distinction

Leone Ling On Tsang
with distinction

Kira Varvanina

Shiyan Wu
B.Eng.
with distinction

Sonja Bata

Sonja Bata, O.C., LL.D., D.Hum.L.

Sonya Bata, business executive, humanitarian, and design advocate, will be awarded the degree of Doctor of Laws, *honoris causa*, at the 4:00 p.m. ceremony on Friday, June 17, "in recognition of an outstanding contribution to the fields of design and business."

Educated in Switzerland, Bata is perhaps most renowned as Vice-Chair of one of the most successful international family-run businesses, the Bata Shoe Foundation. Her love of shoes and architecture helped her contribute to Bata's incredible international success. The organization serves more than one million customers per day and operates 4,600 retail stores, with a retail presence in more than 30 countries.

Her keen business sense, passion for design, and humanitarian efforts have garnered her the respect and admiration of many. She has been actively involved with numerous high-profile organizations, particularly those serving youth, education, and culture, including the World Wildlife Fund, the North York General Hospital Foundation, and the Council for Business and the Arts in Canada, among many others. Her contributions have had an impact both at a community level and internationally.

Sonja Bata is the recipient of numerous previous honours including a Canadian Business Hall of Fame Award and a Silver Medal of the United Nations Environmental Programme. She has received honorary degrees from St. Francis Xavier University, the University of Manitoba, Dalhousie University, York University, Mount Saint Vincent University, and Wilson College in Pennsylvania. She is also an Officer of the Order of Canada.

Catherine MacGregor

Catherine MacGregor, B.A., B.Ed., M.A., Ph.D., J.S. Woodsworth Secondary School

Catherine MacGregor is an Ottawa native and proud Carleton graduate. After graduating from Carleton with her Bachelor of Arts in 1973, MacGregor went on to complete a Bachelor of Education at Queen's University in 1974. Her love of learning recently brought her back to Carleton to complete a Master of Arts in 1990, followed by a Ph.D. in English from the University of Ottawa in 2000.
MacGregor has taught English at J.S. Woodsworth Secondary School in Ottawa since 1974. The school will be closing this June. In September, she will begin teaching at Merivale High School.

As an English teacher, MacGregor is committed to deepening a student's confidence, competence, and delight in reading, writing, and speaking, while encouraging all students to see the parallels between their own experience and that of the texts they are exploring.

Besides her true dedication to lifelong learning, Catherine MacGregor also has a strong affinity to all things Gaelic. She is a member of a Gaelic Choir, Glengarry Gaelfolk, is studying Gaelic vocal music, and is learning to play the Celtic harp.

Friday, June 17, 4:00 p.m.

Chancellor Marc Garneau, C.C., C.D., B.Sc., Ph.D., LL.D., P.Eng., presiding.

(The audience is requested to stand when the Academic Procession arrives, to remain standing until `O Canada' has been sung, and at the conclusion of the ceremony to remain until the Academic Procession has left.)

Processional Music
John Robert Coghill Jr., B.Mus. (bagpipes)
Garry Matthews (snare drum)
Craig Moffatt (bagpipes)

O Canada*
(the audience is invited to sing)

Welcome by the Master of Ceremonies
Feridun Hamdullahpur, B.Eng., M.Eng., Ph.D., P.Eng.,
Vice-President (Research and International)

Conferring of the Degree of Doctor of Laws, *honoris causa*, upon
Sonja Bata, O.C., LL.D., D.Hum.L.,
(presented by Lois Frankel, B.F.A., M.A., M.E.Des.,
Associate Professor of Industrial Design and Director
of the School of Industrial Design)

Convocation Address
Sonja Bata

Conferring of Degrees by Examination

Warrant
Chong H. Chan, B.Sc., M.A.Sc., Ph.D.,
Clerk of Senate

Awarding of Medals

Presentation of a Patrick O'Brien Outstanding High School Teaching Award to
Catherine MacGregor
(presented by Susan Gottheil, B.A., M.A.,
Associate Vice-President (Enrolment Management))

Recessional Music

*see next page for wording

O Canada! Our home and native land!

True patriot love in all thy sons command.

With glowing hearts we see thee rise,

The True North strong and free!

From far and wide, O Canada,

We stand on guard for thee.

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

O Canada! Terre de nos aïeux,

Ton front est ceint de fleurons glorieux.

Car ton bras sait porter l'épée,

Il sait porter la croix.

Ton histoire est une épopée,

Des plus brillants exploits.

Et ta valeur, de foi trempée,

Protégera nos foyers et nos droits.

Protégera nos foyers et nos droits.

Doctor of Philosophy

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Ayman Ahmed*
B.Sc. , M.Sc.
Electrical
Sliding Mode Control for Singularly Perturbed Systems
Supervisors: V. Aitken and H. Schwartz

Yasser S. Gadallah
B.Sc., M.Sc.
Electrical
PIES: Protocol Independent Energy Saving Technique for Mobile Ad Hoc Networks
Supervisor: T. Kunz

Fred Ma*
B.Appl.Sc., M.App.Sc.
Electrical
Mapping to Coarse Grain Reconfigurable Arrays Using Evolutionary Algorithms
Supervisors: C. Plett and J. Knight

Pirouz Zarrinkhat
B.Sc., M.Sc.
Electrical
Majority-Based and Hybrid Iterative Decoding of Low-Density Parity-Check Codes
Supervisor: A. Banihashemi

Master of Applied Science

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Mohamed Moaz Abou El Saoud
B.Sc.
Electrical
Manet Reference Configurations and Evaluation of Service Location Protocol for Manet

Abdulhakim Ahmed
B.Eng.
Electrical
6 GHz Inductor-Less Tuned Low Noise Amplifier Incorporating an Artificial Tank Circuit

Nikhil Barthwal*
B.Tech.
Electrical
An Approach for Building and Evaluating Performance Models for Component Based Systems

Ahmet Hakan Bolukbasi*
B.Sc.
Electrical
Feasibility of Providing Ubiquitous High Data Rate Coverage in Cellular Fixed Relay Networks

Grzegorz M. Brzezina
B.Eng.
Electrical
Planar Antennas in LTCC Technology for Ultra-Wideband Applications

Trevor Graydon Burton*
B.Sc. Eng.
Electrical
Acoustic Echo Cancellation in the Presence of Microphone Arrays

Jing Chen
B.Eng., M.Eng.
Electrical
Design of a CMOS Decision Feedback Equalizer for High Speed Backplane Transceiver

John Michael Daly
B.Eng.
Electrical
Experimental Results for Output Feedback Adaptive Robot Control

John James Danson
B.Eng.
Electrical
Applications for MEMS Capacitive Switches in RF Amplifiers

Adrian Florea*
B.Appl.Sc.
Electrical
On the Efficiency of Using Multiple Hops in Fixed Relay Based Wireless Networks

Joseph Gammal*
B.Eng.
Electrical
Speaker Recognition in Reverberant Environments

Mojdeh Ghodousi*
B.Sc.
Electrical
Enabling QoS in Web Service Composition in a P2P Environment

Ezequiel Glinsky*
B.Sc.
Electrical
New Techniques For Parallel Simulation of Devs and Cell-Devs Models In CD++

Geoffrey Clarence Green*
B.Eng.
Electrical
Wavelet-based Denoising of Cardiac PET Data

Dylan O. Groven*
B.Eng, Cert.
Electrical
A Novel Ka-Band Coupler with Wide Bandwidth and Excellent Phase Balance

Dragan Jurkovic*
B.Sc.
Electrical
Output Feedback Adaptive Control for Robot Manipulators

Victor F. Karam*
B.Eng.
Electrical
RF Mixed Signal Design and Layout Synthesis with Object-Oriented C++ for Nanometre SOI CMOS

Jessica Phaik Sun Koay*
B.Sc.
Electrical
Quantitative Analysis of Infrared Images For Early Breast Cancer Detection

Chiko Lee*
B.Eng.
Electrical
The Impact of Non-Ideal Analog Factors on OFDM Signaling

Michael Mariani
B.Eng.
Electrical
Microwave Coplanar Waveguide Tunable Filters Using RF MEMS

Sinisa Milicevic
B.Sc.
Electrical
A Multi-Band Voltage-Controlled Ring Oscillator

Ömer Mubarek*
B.Sc.
Electrical
Dynamic Frequency Hopping in Cellular Fixed Relay Networks

Xiang Pan*
B.Eng.
Electrical Engineering
Robust Image Transmission with Rate-Compatible Low-Density Parity-Check Codes Over Noisy Channels

Xue Fei Pan*
B.Eng.
Electrical
Laser Tweezers: A Tool to Assist Self-Assembly and Template Population

Yuntong Song
B.Eng.
Electrical
A Dual Channel RF Front End Receiver with RF Q-enhanced LC Filters

Yin Fung Tang
B.Appl.Sc.
Electrical
Variable Feedback Latency Compensation for the LMS- Based Smart Antenna Receiver

Adrienne Turnbull*
B.Eng.
Electrical
Trench Isolated Silicon-on-Insulator Optical Rib Waveguides

Muhammad Usama
B.Eng.
Electrical
Current Mode Logic Latch and Prescaler Design Optimization in 0.18um CMOS Technology

Kaibin Wang
B.Eng., M.Eng.
Electrical
Region-Based Three-Dimensional Wavelet Transform Coding

Henry Wong
B.Eng.
Electrical
An Efficient Hardware Implementation of a Reconfigurable Turbo Encoder/ Decoder Emulator

Jinmei Yang
B.Sc., M.Sc.
Electrical
A Proportional Congestion Control Solution for Real-Time Traffic

Jian Zhu*
B.Eng., M.Eng.
Electrical
Scheduling Algorithms for Resilient Packet Ring Networks with Video Transport Applications

Master of Engineering

(presented by Professor A.B. Mingarelli, Associate Dean of the Faculty of Graduate Studies and Research)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Paul Jeffery Marlow*
B.Sc.
Electrical
A Process and Tool-Set for the Development of an Interface Agent for use in the RoboCup Environment

Horia Popovici
Dip.
Electrical

Jian Zhang
B.Eng., M.Eng.
Electrical

Syed Amjad Ali
B.Sc., M.B.A.
Telecommunications Technology Management
Adoption of Voice Over Internet Protocol by North American Service Operators

Michael Harvey Allen*
B.C.S.
Telecommunications Technology Management
A Political Perspective on Product Development Schedules: Evidence from Software

Peter Lemuel Hoddinott
B.Sc., M.Sc.
Telecommunications Technology Management
Commercial Alignment of Firms and Government Agencies Advancing Climate Change Technologies

Ishfaq Hussain Malik
B.Sc.
Telecommunications Technology Management
Differences in Competitive Aggressiveness Between Growth and Meltdown Periods

Rodolfo Napoles*
B.Eng.
Telecommunications Technology Management
Evolution and Adoption of UML-Based Development Tools

Aamer Sajjad*
B.Sc.
Telecommunications Technology Management
Commercialization Strategy and Competitive Aggressiveness for Technology Startups in Ottawa

Stoyan Tanev*
Dip., Ph.D.
Telecommunications Technology Management
Competitive Intelligence Information and Innovation Performance of IRAP Funded Companies

Peiyao Wang
B.Sc.
Telecommunications Technology Management
Distributed New Product Development Structures and Schedule Overrun

Terence Yongtao Zhang
B.Sc., M.Sc.
Telecommunications Technology Management
How Customer Attributes Affect Retention Loyalty Intention and Satisfaction for Continuously Provided Services

Yong Zhang
B.Eng.
Telecommunications Technology Management
Capturing Value from Early Stage Technology in Open Standard Environments: The Case of Wi-Fi

Wei Zhen*
B.Eng.
Telecommunications Technology Management
Using Christensen's Models to Make Sense of Changes in the Chinese Telecommunications Equipment Supplier Industry

Bachelor of Engineering

(presented by Professor S.A. Mahmoud, Dean of the Faculty of Engineering and Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

COMMUNICATIONS

Kamel Bassam Al Zein
with high distinction

Islam Mohamed Lotfy Balbaa
with distinction

Yuk Fai Dickson Cheng

Wilfredo Farias
Minor in Mathematics

Adam Alfred Fulton
Co-operative Education
with high distinction

Nigel Gocan
M.Sc.
Co-operative Education
with high distinction

Aarti Goge
Co-operative Education
with distinction

Parisa Haim Faridian

Stephen Henry

Thatayaone Isau

Abdallah Ismail
with high distinction

Sayed Rizwan Kadri

Can Koklu
with distinction

Heine Mar*
with distinction

Tambona Mokiya

Raymond Mounir Mousaad*

Hamed Mousavi*
with high distinction

Thaer Ontabli

Stephen Peter Ortis
Co-operative Education
with high distinction

Xiu Zhen Pan
Minor in Economics
with distinction

Mosimanegape Ramokgweetsi

Robert Spaanenburg
with distinction

Kachusa Chau Sang Szeto-Siu
B.Eng.Sc.
with distinction

Victor Stefan Tazlauanu
Co-operative Education
with high distinction

Fu Kei Wong*
with high distinction

Ahmed Hafiz Atta Zainaldin
with high distinction

COMPUTER SYSTEMS

Mohamed M. Abd El-Salam Ahmed*

Amit Aggarwal
with high distinction

Ahmed Mohamed Abdelsalam Ahmed
with high distinction

Rami Al-Tayeche

Brian Alder

Jonathan Darelle Anderson

Javed Hassan Bagha*
with distinction

Saurabh Bagrodia
Co-operative Education
with high distinction

Nima Bahramifarid

Darryl James Baker
B.A.

Sofia Besyakov

Jason S. Blakeney

Michael A. Capewell
with distinction

Carlos Fernando Castro

Rong Chao Chen
with high distinction

Nicholas Eugene Dallas
with distinction

Alexander Manuel Dias
with distinction

Peter Timothy Giles
with distinction

Carla Marilyn Hache*

Muhammad Furqan Haq

Cameron Andrew Thomas Harding
Co-operative Education
with high distinction

Farzan Hidaroghla

Alan John Higginson
Co-operative Education
with high distinction

Mustapha Jaber
Co-operative Education
with high distinction

Shafagh Jafer
with high distinction

Yasser Jafer
with distinction

Nada Kadhim

Kamalathas Kanagasundaram

Abdullah Sayed Shehata Karar
with high distinction

Afiya Saidi Kassim
with high distinction

Mohamad Kassira

Masuma Khan
Co-operative Education
with high distinction

Sunita Kollipara
Co-operative Education
with distinction

Frank Kor

Jason Christopher Laronde

Catherine Le Voir

David Ronald Lee Ledoux
with distinction

Kelley Emil Ricardo Lewis-Oliver
Co-operative Education
with distinction

Mekki Robert MacAulay Abdelwahab
with distinction

Delani Darshini Mahendran

Matthew Benjamin McDonald

James Alexander McKenzie
Co-operative Education
with high distinction

Jeremy Rodger McNicoll
with distinction

Charles Mougeot

Rory Reid O'Connor*

Jesse Pool
Co-operative Education
with high distinction

Marco Qaqish

Jeffrey R. Quarrington

Saloumeh Rahimzadeh

Ryan Robinson*

Jason Seto

Tharshini Shanmuganathar

Jeyananthan Sivakumaran
Minor in Psychology
with distinction

Gopinath Sivarajah
Minor in Mathematics
with distinction

Craig Smith
with high distinction

Raman Sodhi

Hubert Sugeng
Co-operative Education
with high distinction

Patrick Suwalski
with distinction

Amogelang Tapela

Barry Tieu
with distinction

Duong Dai Tran
Minor in Business

Clement Wing-Yan Tse
Co-operative Education
with high distinction

Christian Vogt
with high distinction

Derek James Voisin
Co-operative Education
with high distinction

Kai Wang
Minor in Business
with distinction

Richard David Waugh

Towfiqa Yasmeen

ELECTRICAL

Karim Abdelhalim
with high distinction

Amal Ahmed
Co-operative Education
with high distinction

Banan Al-Aubiydy

Tareq Al-Zoubi

Bashar Alasadi
with distinction

Alyas Ali

Rodney David Allan
Co-operative Education
with high distinction

Sivamalar Arulampalam

Dushyanthan Balakrishnan

Sharmila Balasingam

Vasanthakumar Balasubramaniam
Co-operative Education
with distinction

Safa Balhous*

Alexander L. Beckstead

Catherine Binette
with high distinction

Douglas Matthew Brimmell

Andrew Campbell
with distinction

Kathryn Lynn Chinkiwsky

Stephanie M. Cox
with high distinction

Bradley Rutherford Craig
Co-operative Education
with high distinction

Faysal Diriye

Hessamaldin Farahbakhsh

Lidija Filipovic
Co-operative Education
with high distinction

Babak Fooladi*

Kevin Richard Friesen

Matias David Garcia
Co-operative Education
with distinction

Daryl Kenton Gee

Scott James Gibson
Co-operative education
with high distinction

Sing Kuan Goh
Minor in Business

Joshua Gregg Gorham

Istvan Peter Gutsik

Vincent Grant Milton Hache
Co-operative Education
with high distinction

Max Paul Harris
with high distinction

Nadia Hashem

Christopher Andrew Hatko
Co-operative Education
with distinction

Yue He
Minor in Statistics
with distinction

Michael Heins*

Sarmin Hossendoust*
Minor in French

Eugene Hsu
Co-operative Education
with high distinction

Diana Alexandra Ioan
with high distinction

Ahmed B. Irshaid*

Mark Jonathan Ishack
with distinction

Jeyakanthan Jeyaratnam*

Kantharupan Kathirkameswaran

Reza Kazemi Kamyab

Matthew Kneebone*

Sabrina M. Kohli
Minor in Law

Jonathan Bogdan Koscik

Calvin Kwok

André Michael Lanctôt*

Kevin Lapointe
Co-operative Education
with distinction

Michael Charles Lewis

Bo Liu
with high distinction

Akol Lual Lual
with distinction

Nathan Mac Lauchlan

Umaganeshan Mahandran

Jegan Mahendralingam

James Andrew Mangolt
Co-operative Education
with high distinction

Sutharshan Manikavasagar

Nevil R. Mariathasan

Jan Matrtaj
Minor in Business

Kreshnik Meqa
with distinction

Scott Alexander Miller

Sorouche Mirmiran

Maryam Monadi
Co-operative Education
with distinction

Manivannan Nadesan
Co-operative Education
with high distinction

Kengatharan Nagalingam

Pradeepan Navaratnam

Sokhon Neth*

Brian Chao-Wei Ng

Hai Viet Nguyen

Christopher Ojczyk
with distinction

Colin Charles Orsborne

Sze Pui Pan*

Tharani Panneerselvam
with distinction

Ainkaran Pathmanathan*

Kinga Petrovai

Roch Picknell*
with distinction

Krzysztof Dominik Pikula*

Shekharendra Prasad
Minor in Business
Co-operative Education
with high distinction

Vaneet Rai

Przemyslaw Mike Ratajczak

Walterson Santhiapillai*

Mayuran Selvadurai*

Gnanapaheerathan Selvanayagam

Mathan Senthivadivel

Hao Shang*
with high distinction

Nishanthan Shanmugaratnam

Abdulaziz Abd Shohib

Tuncay Sipahi

Yogenthiran Sivanayagamoorthy

Valer Stratulat*

Suganya Subramaniam

Wei Sun
with high distinction

Yemei Sun
with distinction

Sivanathan Swaminathan*

Tharmarajah Thangarajah

Johnny Truong

Yian Uh

Kanthavel Velauthampillai

Jose Luis Velez
Minor in Mathematics
Co-operative Education
with high distinction

Nina Vuthy*

Cuong Vuu

Nicholas Adam Wittebol
with distinction

Emily Fung Yee Wong

Michael Brock Wyndham
Co-operative Education
with high distinction

Zhong Chuan Yang
B.Eng.

Kingsley Yu

Atta Zainaldin

Irena Zamboni
with distinction

Zhe Zhou
with high distinction

Yongliang Zhu
with high distinction

Darko Zivic

SOFTWARE

Abeer Abu-Zribeh

Abbas Al Hussaini
Co-operative Education
with high distinction

Balasangar Balasubramaniam

Michael Gordon Bowman
Co-operative Education
with high distinction

Edward Chow
with distinction

Guangjie Joey Deng

Daniel Rory Donovan

David Andrew McCorkell
Minor in Mathematics

Stephen Dale M^{c}Gee*

Thomas L. Parker
with distinction

Khoi Quang Phung

Karyn Anne Richardson

David Alexander Ross
with distinction

Raguraman Sivapathasuntharam
Co-operative Education
with distinction

Michael T. Smith
Co-operative Education
with high distinction

Christopher William Thomas
with distinction

Ravik Tupja
Co-operative Education
with high distinction

Wilson Andrew Venhola
Co-operative Education
with high distinction

ENGINEERING PHYSICS

Jaimie Bordman
with distinction

Jesse Boynton Payne*

Andrew John Francis Charest
with high distinction

Iain Culligan
Co-operative Education
with distinction

Paul Dagenais
with distinction

Brian Gary Down*
with distinction

Thomas Edward Hewitt
with high distinction

Kevin Janok

Steven John Kennedy
Co-operative Education
with high distinction

Timothy Mahilrajan
with high distinction

Dmitri Moisseev
Co-operative Education
with high distinction

Alasdair Patrick Rankin
Co-operative Education
with high distinction

Marko Spasenovic
with high distinction

Thomas William Walker
Co-operative Education
with high distinction

Michael Geoffrey Young
Co-operative Education
with distinction

Bachelor of Industrial Design

(presented by Associate Professor Lois Frankel, Director of the School of Industrial Design)

Degrees conferred at Spring Convocation are awarded by Senate in February and in June. Degrees awarded in February are denoted by an asterisk (*)

Katherine Ann Boyachok
Co-operative Education
with high distinction

Philippe Brunet

Vivian Wai Man Cheng
B.Sc.
with high distinction

Christopher Kok Wai Chow

Troy Lawrence Daniel Gavan

Steven Paul Gervais
B.A.
with high distinction

Vincent Matthieu Gratton
B.Civil Eng.
with high distinction

Reinier Halbertsma
with distinction

Walid Hassanein

Lauren Elizabeth Javor
with distinction

Ryan Lukas
with distinction

Laura A. Magee

Michael McGinn

Todd Moffat*

Matthew Reardon Pauk
with distinction

Gabrielle Pell
B.Sc.
Co-operative Education
with distinction

Phan San
with distinction

Nicholas J. Sianchuk

Kara Catherine Stonehouse
Minor in Business
Co-operative Education
with distinction

Robert Vincent Tang
with distinction

Michelle Thompson
with high distinction

Stacey Lynn Triplett
B.Sc.
with distinction

Cale Robert Vardy*
with distinction

John Vareka

Laura Dawn Waggott
Co-operative Education
with high distinction

Yang Kevin Wang

Brian Wheeler

Patrick Douglas Williams
with high distinction

The following additions and/or corrections were made by Senate after publication of the 2004 Fall Convocation Program

Bachelor of Arts (Honours)

Matthew Alexander Duarte
Honours in Mass Communication
Minor in History

Sarah Victoria Mullin
Honours in Art History
Minor in Film Studies

Adrian S. Pankiw
Honours in Economics
Concentration in Financial Economics

Christina Anne-Marie Reid
Honours in Criminology and Criminal Justice
Concentration in Sociology

Bachelor of Arts

Janine Flood
History

Matiullah Hussainzad
Sociology and Anthropology

Bachelor of Commerce (Honours)

Arivalagan Mylvaganam

Edward Nehme
Concentration in Accounting

Bachelor of International Business (Honours)

Xiaojie Cai

Jennifer E. Watson

Bachelor of Engineering

Mayooran Kasinathan
Computer Systems Engineering

The Governor General's Medal – Bachelor's Level
Awarded annually to a student standing at the head of the graduating class at the bachelor's level.
Donor: Her Excellency the Governor General of Canada

Kerry Rennie
Bachelor of Science
Highest Honours
Neuroscience

The President's Medal
Awarded annually in the name of the President of the University to the student with the highest standing in a general degree program of studies.

Michael Anthony Rotondi
Bachelor of Mathematics
Mathematics
with distinction

University Medals (Undergraduate)
Awarded annually, when merited, to the graduating students standing highest in architecture, architectural studies, arts, commerce, computer science, engineering, humanities, industrial design, interfaculty studies, international business, journalism, mathematics, music, public administration, public affairs and policy management, science, and social work.

University Medal in Architecture
Jennifer A. Lombardi
Bachelor of Architectural Studies
with high distinction

University Medal in Computer Science
Tatiana Moskun
Bachelor of Computer Science
Highest Honours
Software and Computing

University Medal in Engineering
Michael T. Smith
Bachelor of Engineering
Software
with high distinction

University Medal in Industrial Design
Vivian Wai Man Cheng
Bachelor of Industrial Design
with high distinction

University Medal in Interfaculty Studies
Rebecca Lee
Bachelor of Science
Highest Honours
Neuroscience

University Medal in Mathematics
Shu Wang
Bachelor of Mathematics
Highest Honours
Computer Science and Mathematics

University Medal in Science
Candice Yang Johnson
Bachelor of Science
Highest Honours
Biology and Biotechnology

Senate Medals
Awarded, when merited, to graduating students of outstanding academic achievement.

Doctoral Level

David Haziza
Doctor of Philosophy
Mathematics

Pirouz Zarrinkhat
Doctor of Philosophy
Electrical Engineering

Master's Level

Derek Edward Bradley
Master of Computer Science

Ezequiel Glinsky
Master of Applied Science
Electrical Engineering

Undergraduate Level

Bachelor of Science (Honours)

Allison Louise Brazeau
Highest Honours
Chemistry

Alex Duong
Highest Honours
Computational Biology

Mary Ann Ferguson
Highest Honours
Psychology

Barbara Frei
Highest Honours
Biology

Christopher Jewell
Highest Honours
Applied Physics

Christine Lamarche
Highest Honours
Biochemistry and Biotechnology

Robert Phillip Smith
Highest Honours
Biology and Biotechnology

Jennifer Louise Summers
Highest Honours
Psychology

Stefan Joel Paul Thompson
Highest Honours
Environmental Science

Carrie A. Van Luven
Highest Honours
Geology

Deanne van Rooyen
Highest Honours
Geology

David Verrilli
Integrated Science Studies
with distinction

Bachelor of Mathematics (Honours)

Jordan Edward Bell
Highest Honours

Scott Andrew Bush
Highest Honours

Elizabeth Ann Cross
Highest Honours
Computer Science and Mathematics

Bachelor of Mathematics

Tayyabah Hassan
with distinction

Naomi Lynne Wolfson
with distinction

Bachelor of Computer Science

Nicolaas Blaauw
Highest Honours
Software and Computing

Richard Blair Enns
Highest Honours
Software and Computing

Defang Hou
Highest Honours
Software and Computing

Jun Hou
Highest Honours
Software and Computing

Christopher Ryan Johnson
Highest Honours
Software Engineering

Yongmei Liu
Highest Honours
Software and Computing

Kah Khuen Loke
Highest Honours
Network Computing

Alexandra Metelski
Highest Honours
Software Engineering

George John Salhani
Highest Honours
Management and Business Systems

Xiaotao Shu
Highest Honours
Network Computing

Heather Leigh Simmie
Highest Honours
Management and Business Systems

Chunyan Wang
Highest Honours
Software and Computing

Jian Xie
Highest Honours
Software and Computing

Bachelor of Engineering (Aerospace)

Zahra Khan
with high distinction

Dennis James McLean
with high distinction

Jay Richard Cameron Murdoch
with high distinction

James David Robinson
with high distinction

Bachelor of Engineering (Civil)

Eci Garavito-Bruhn
with high distinction

Bachelor of Engineering (Mechanical)

Chukwudi Azih
with high distinction

Aleksander Andrzej Wisniewski
with high distinction

Bachelor of Engineering (Communications)

Hamed Mousavi
with high distinction

Stephen Peter Ortis
with high distinction

Fu Kei Wong
with high distinction

Ahmed Hafiz Atta Zainaldin
with high distinction

Bachelor of Engineering (Computer Systems)

Amit Aggarwal
with high distinction

Ahmed Mohamed Abdelsalam Ahmed
with high distinction

Alan John Higginson
with high distinction

Abdullah Sayed Shehata Karar
with high distinction

Afiya Saidi Kassim
with high distinction

James Alexander McKenzie
with high distinction

Jesse Pool
Co-operative Education
with high distinction

Bachelor of Engineering (Electrical)

Karim Abdelhalim
with high distinction

Lidija Filipovic
with high distinction

Max Paul Harris
with high distinction

Eugene Hsu
with high distinction

Hao Shang
with high distinction

Wei Sun
with high distinction

Bachelor of Engineering (Software)

Michael Gordon Bowman
with high distinction

Wilson Andrew Venhola
with high distinction

Bachelor of Engineering (Engineering Physics)

Andrew John Francis Charest
with high distinction

Thomas Edward Hewitt
with high distinction

Timothy Mahilrajan
with high distinction

Alasdair Patrick Rankin
with high distinction

Thomas William Walker
with high distinction

Bachelor of Industrial Design
Katherine Ann Boyachok
with high distinction